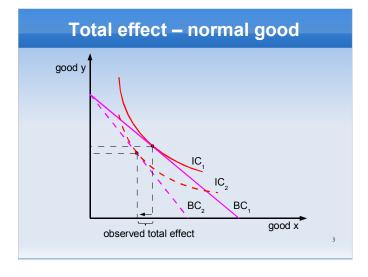
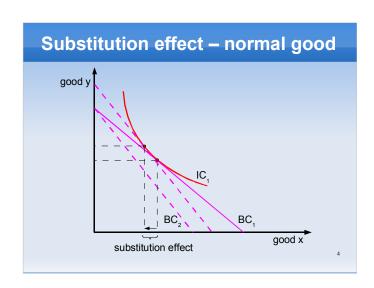
Intermediate Microeconomics

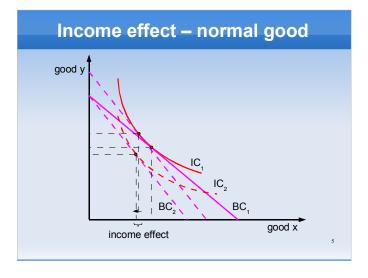
Chapter 4
Price Changes and Consumer Welfare

"Law of demand"

- "Law of demand" = when the price of a good goes up, the quantity demanded goes down, ceteris paribus (all other things equal)
- Two simultaneous effects:
 - income effect = since the good is more expensive, it is as if income fell (the consumer has less money for the purchase of the other goods)
 - substitution effect = the other goods are now relatively cheaper, so more desirable
- The final effect depends on which effect dominates







Substitution effect

- When price changes, suppose the consumer received some compensation that allowed her to achieve the same utility as before
- Substitution effect is the change in quantity demanded along the original indifference curve
- It is also called compensated response, because the consumer can still afford to be on the original indifference curve
- Always in opposite direction to the price change

Income effect

- When price changes, the consumer has more/less money for the other goods
- Income effect is the change in quantity demanded as the consumer moves from the "substitution effect" point on the original indifference curve to the new indifference curve
- Depending on the type of good, it can work in the same direction or in the opposite direction to the price change

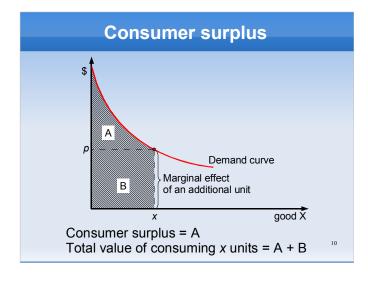
Types of goods

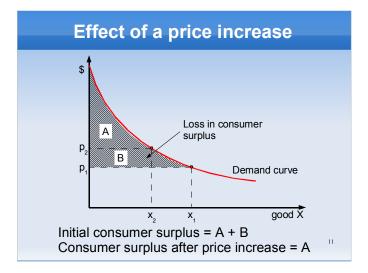
- Normal good = both income and substitution effect work in the same direction
- Inferior good = income effect and substitution effect work in opposite directions, but the substitution effect dominates (law of demand still holds)
- Giffen good = income effect and substitution effect work in opposite directions, but the income effect dominates (law of demand fails)

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Consumer surplus

- (Marshallian) Consumer surplus = difference between what a consumer is willing to pay and what she actually has to pay
- Demand curve shows "willingness to pay", so the height of a point is the marginal value of an additional unit of consumption at that point
- So, area under the demand curve and above the price level is the consumer surplus





Application: trade quotas

- Trade quota = restriction on imports of some commodity
- When imposing a trade quota, the quantity available (supplied) is restricted ⇒ price increases
- As a result, consumer surplus falls and consumers are worse off
- How about producers? They are better off because of higher prices (quota rents)
- But: deadweight loss (waste) ⇒ society is worse off

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